

ENERGY STAR Purchasing



What is ENERGY STAR® Purchasing?



- ENERGY STAR® Purchasing helps organizations identify, specify, and purchase ENERGY STAR® qualified products as part of an overall energy management strategy.

The ENERGY STAR® Label



- A trusted symbol that identifies products with superior energy performance
- Voluntary labeling program jointly managed by EPA and DOE
- Over 35 product categories and 14,000 product models

Benefits of Purchasing ENERGY STAR® Qualified Products



- Equivalent or better quality
- Lower utility bills
- Consume less energy
- Publicly demonstrate commitment to environment

ENERGY STAR® Qualified Product Categories



Lighting

Appliances

Consumer Electronics

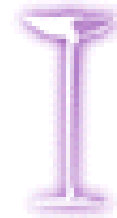
Office Equipment

Heating & Cooling

Windows & Roofing

Transformers

Traffic Lights



ENERGY STAR® Purchasing Tools



- Product listings (both ENERGY STAR qualified and FEMP designated)
- Product specifications
- Drop-in procurement language
- Savings calculators/LCC

Access: www.energystar.gov/purchasing

Procurement Language & Specifications - Exit Signs



- Drag and drop procurement language

The Vendor Must:

Provide exit signs that meet the ENERGY STAR guidelines for energy efficiency. For ENERGY STAR qualified exit sign guidelines, see table:

- Input power - ≤ 5 watts
- Luminance contrast - > 0.8
- Average luminance- > 15 cd/m²
(measured at 0° and 45° viewing angles)
- Manufacturer warranty - 5 years

Savings Calculator - Exit Signs



- **Purchasing Assumptions**
 - Number of exit signs: 500
 - Purchase price
 - ENERGY STAR: \$85
 - Non- ENERGY STAR : \$55
 - Lamp Replacement Costs
 - ENERGY STAR : \$0 each year
 - Non- ENERGY STAR : \$16 total each year
 - Electricity cost: \$0.024/kWh

Savings Calculator - Exit Signs



	ENERGY STAR	Non- ENERGY STAR
<i>Annual Operating Cost</i>		
Energy cost	\$526	\$4,205
Maintenance cost	\$0	\$13,860
Total:	\$526	\$18,065

<i>Life Cycle Cost</i>		
Lifetime operating cost	\$4,263	\$137,158
Purchase price	\$42,500	\$27,500
Total:	\$46,763	\$164,658

Savings Calculator - Exit Signs



- **Savings Results**
 - Total annual savings: \$17,539
 - Total life cycle savings: \$117,895
 - Payback in 11 months
 - Carbon emissions reduction equivalent to removing 229 cars from the road.

Procurement Language - Medium Speed Copiers



- Drag and drop procurement language

The Vendor Must:

Provide copiers that meet the ENERGY STAR guidelines for energy efficiency.

Ship copiers with power management features enabled and duplexing capability set as default.

- Low power mode: $3.85 \times \text{cpm} + 5$
- Low power default time: 15 min.
- Off mode (watts): ≤ 15
- Recovery time 30 sec: Yes

Savings Calculator - Copiers



- **Purchasing Assumptions**

- 200 copiers
- \$ 7,500 per unit
- 6 year product life
- Electricity: \$ 0.077/kWh
- ENERGY STAR: 7.5w in off mode
- Non ENERGY STAR: 14w in off mode

Savings Calculator - Copiers



	<u>ENERGY STAR</u>	<u>Non- ENERGY STAR</u>
<i>Annual Operating Cost</i>		
Energy cost	\$11,280	\$16,241
Maintenance cost	\$0	\$0
Total:	\$11,280	\$16,241
<i>Life Cycle Cost</i>		
Lifetime operating cost	\$59,133	\$85,137
Purchase price	\$1,500,000	\$1,500,000
Total:	\$1,559,133	\$1,585,137

ENERGY STAR®

Purchasing Resources



- Communications
 - Fact sheets & case studies
 - PowerPoint presentations
 - Articles
- Internet Presentations

Enabling Energy- Efficient Purchasing – State level



- Indiana

“Current procurement guidelines shall be revised for the purchase of computers, fax machines, . . . that have the ENERGY STAR efficiency label.”

Implements Executive Order 99-07

Enabling Energy- Efficient Purchasing – State level



- Maryland
“The State shall purchase ENERGY STAR products when purchasing energy-using products . . . or shall purchase products in the top 25% in energy efficiency . . .”

Executive Order 01.01.2001.02

Enabling Energy-Efficient Purchasing – State level



- Hawaii

Agencies shall select, where life-cycle cost-effective, ENERGY STAR and other energy efficient products when acquiring energy-using products.

Session 2002, SB 2179

5 Steps for Procuring ENERGY STAR® Qualified Products



- 1 **Review** purchasing policies and identify product categories where savings exist
- 2 **Visit** www.energystar.gov/purchasing for product listings, and access Savings Calculators to determine savings opportunities
- 3 **Coordinate** with appropriate offices within organization to encourage the purchase of identified ENERGY STAR products
- 4 **Modify** procurement language and inform employees
- 5 **Track and communicate** success

Summary



Comprehensive support for ENERGY STAR purchasing

- Support in implementing 5 Steps
- Briefings for procurement officials on ENERGY STAR Purchasing Resources
- Energy Savings Calculators
- Communications resources
- Case study examples
- Web-based services to facilitate purchasing

For more information:



- Toll Free Hotline
 - 1-888-STAR-YES (782-7937)
- Online
 - www.energystar.gov/purchasing
 - www.eere.energy.gov/femp

For More Information:



The Cadmus Group, Inc.

- State & local governments & hospitality:
 - Steve Jurovics
 - 919-403-5104, sjurovics@cadmusgroup.com
- Higher education, K-12 schools
 - Michelle Salisbury
 - 617-673-7153, msalisbury@cadmusgroup.com
- EPA contact
 - Maureen McNamara
 - Mcnamara.maureen@epamail.epa.gov